## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

1. (Currently Amended) A high-density read-only optical disc including a Lead-In area, a data area, and a Lead-Out area, comprising:

the Lead-In area including a specific area having a straight pit-shaped line created by repeated marks and spaces,

wherein either one of the mark or the space is recorded with a minimum pit length at least as small as 2T.

- 2. (Original) The disc as set forth in claim 1, wherein the specific area contains principal information of the high-density read-only optical disc.
- 3. (Currently Amended) The disc as set forth in claim 1, wherein the specific area is an area that would correspond in a high-density rewritable optical disc corresponding to a PIC (Permanent Information & Control data) area, contained in a Lead-In area of the high density rewritable optical disc, for permanently storing principal disc information.
- 4. (Original) The disc as set forth in claim 3, wherein the high-density read-only optical disc is a BD-ROM (Blu-ray Disc ROM), and the high-density rewritable optical disc is a BD-RE (Blu-ray Disc Rewritable).
- 5. (Original) The disc as set forth in claim 1, wherein the mark and the space are repeatedly recorded in a predetermined recording period with different unique pit lengths according to a data value representing the recording period.
- 6. (Original) The disc as set forth in claim 5, wherein sum of pit lengths of each pair of the mark and the space is constant, irrespective of a representative data value of the recording

period.

- 7. (Currently Amended) A method for reproducing data stored in an optical recording medium, comprising the steps of:
- a) reading data recorded in a Lead-In area in the form of pre-pits <u>having a minimum pit</u> <u>length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated)</u> groove; and
  - b) reproducing data recorded in a user information area by referring to the read data.
- 8. (Original) The method as set forth in claim 7, wherein the pre-pits are arranged in the form of a straight line.
- 9. (Original) The method as set forth in one of claim 7, wherein the data recorded in the Lead-In area is read by a servo operation, and the data recorded in the user information area is read by the same servo operation as said servo operation.
- 10. (Original) The method as set forth in one of claim 9, wherein the servo operation is a DPD (Differential Phase Detection) method.
- 11. (Currently Amended) A method for recording data in an optical recording medium, comprising the steps of:
- a) recording data in a Lead-In area in the form of pits <u>having a minimum pit length at</u> <u>least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove;</u> and
  - b) recording user data in the form of straight pits in a user information area.
- 12. (Original) The method as set forth in claim 11, wherein the pits are arranged in the form of a straight line.

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13. (Currently Amended) An optical recording medium, comprising:

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- a Lead-In area in which data is recorded in the form of pre-pits <u>having a minimum pit</u> <u>length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated)</u> groove; and
  - a user information area in which data is recorded in the form of straight pre-pits.
- 14. (Original) The medium as set forth in claim 13, wherein the pre-pits recorded in the Lead-In area are arranged in the form of a straight line.
- 15. (Original) The medium as set forth in claim 13, wherein the pre-pits recorded in the Lead-In area contain predetermined marks and spaces, and either one of the mark or the space is configured with a minimum pit length.
- 16. (Currently Amended) An apparatus for reproducing data stored in an optical recording medium, comprising:
- a servo unit for reading data recorded in a Lead-In area in the form of pre-pits <u>having a minimum pit length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove, and reading data recorded in a user information area in the form of straight pre-pits by referring to the data read from the Lead-In area; and</u>
  - a control unit for controlling the servo unit.

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